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1 An analytic model for parallel Gaussian elimination on a binary N-Cube architecture

V. A. F. Almeida, L. W. Dowdy, M. R. Leuze

January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**

Full text available: pdf(344.18 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper summarizes an analytical technique which predicts the time required to execute a given parallel program, with given data, on a given parallel architecture. For illustration purposes, the particular parallel program chosen is parallel Gaussian elimination and the particular parallel architecture chosen is a binary n-cube. The analytical technique is based upon a product-form queuing network model which is solved using an iterative method. The technique is validated by comparing pe ...

2 Problem formulation using array processing techniques

D. J. Evans

January 1975 **ACM SIGPLAN Notices , Proceedings of the conference on Programming languages and compilers for parallel and vector machines**, Volume 10 Issue 3

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This paper outlines the evolution of array processing computational techniques and systems and briefly discusses the important concepts of the software and programming strategies which enable these systems to be used effectively. For very large problems, the advantages of parallel processing techniques are stressed and the use of a mathematical programming array language outlined for removing some of the arbitrariness from the problem formulation and programming stages of solving ...

3 A parallel B-spline surface fitting algorithm

Fuhua Cheng, Ardeshir Goshtasby

November 1988 **ACM Transactions on Graphics (TOG)**, Volume 8 Issue 1

Full text available: pdf(518.16 KB) Additional Information: full citation, abstract, references, citings, index terms

A parallel fitting algorithm using uniform bicubic B-spline surfaces is presented. This algorithm is based on the observation that a tensor product spline surface fitting problem can be split into two spline curve fitting problems, and each of these problems can be carried out in parallel by cyclic reduction. Using this approach, the control points of a uniform bicubic B-spline surface that interpolates a grid of m x n points can be found in O

4 Parallel programming with control abstraction

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